

PATENT ABSTRACTS OF JAPAN

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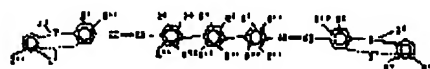
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(54) ORGANIC ELECTROLUMINESCENT ELEMENT

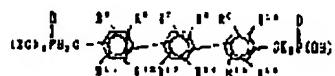
(57)Abstract:

PURPOSE: To obtain the element containing a compound having excellent hole transport properties, being resistant to crystallization even when made into an element and having good heat stability, and being excellent in film thinness by using a styryl compound of a specified structure.

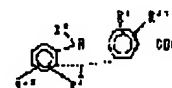
CONSTITUTION: A styryl compound of a terphenylene derivative, represented by formula I (wherein R1 to R20 are each H, halogen, 1-6C alkyl, alkoxy, 6-18C aryloxy, phenyl, amino, substituted amino or hydroxyl, provided that any two adjoining members of them may be combined with each other to form a five- or six-membered ring; Z1 and Z2 are each H, 1-6C alkyl, 6-20C aryl, 7-20C aralkyl or a bond to the adjacent benzen ring, and dotted lines 1 and 2 represent that the related groups may be combined with each other to form a heterocyclic structure) is used for the luminous layer, hole injection and transport layer, etc., of an organic electroluminescent element. A compound of formula I can be obtained, for example, by condensing a phosphonic ester of formula II with an aldehyde compound of formula III or IV in the presence of a base.



I



II



III



IV

LEGAL STATUS

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